

SECRETNPIC/TSG/RED/ATB-180/70
12 August 1970

MEMORANDUM FOR: Research & Engineering Division, TSG/NPIC

SUBJECT : Activities of [redacted] under Contract
[redacted] - Scientific and Technical Backup
for Research Programs25X1
25X1

1. Contract [redacted] was a Time and Materials contract
[redacted] Funds were expended at approximately equal in-
crements during the year in four major areas of work - three
related to color and one to black and white. The specific
breakdown is as follows:

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Colorimetric Measurements of SO 242
Original Positive Film

Color Image Enhancement of
Infrared Ektachrome

Generation of Analytical Density
Matrix of SO 360 Color Duping Film

Mensuration Study of 3404 Film as
processed in Dual Gamma (B&W)
Chemistry

25X1

2. The contractor for 1159(S) 70 was [redacted]

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3. The contractor's managerial performance was quite good
and they remained within proposal budget estimates. In technical
activities, two significant results of this contract were:

(a) The determination that the new black and white
original processing technique (called Dual Gamma) produces
micro image characteristics that are similar to those pro-
duced by the older, immersion type, processing. The prac-
tical result of this analysis is that the mathematical
techniques used in performing mensuration on the photog-
raphy will not have to be altered because of the change
in development chemistry.

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GROUP 1
Excluded from automatic
downgrading and
declassification

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(b) The introduction of the color gamut concept of color measurement from photography. The conventional means of measuring color requires the use of specialized devices such as spectrophotometers and colorimeters. The color gamut technique, developed as an in-house R&D activity allows conventional photographic densitometers (presently available in NPIC) to specify the color on the reconnaissance photography. The contractor provided support in measurement and analysis of SO 242 original positive color film and SO 360 color duping film. These activities will be continued in a follow on program.

[redacted]
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CONCUR: _____
Chief, Advanced Technology Branch, TSG

_____ Date

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